



BATTERY BUGGY B – 2018

Rank: _____

Final Score: _____

Team Number: B____ Team Name: _____

Student Names: _____

2.a. The vehicle, batteries, additional/spare parts, and practice log are impounded before the start of the competition 1. Y N

3.c. Batteries containing lithium and lead acid batteries are not used. (Otherwise Participation Points only) 2. Y N

Construction Parameters

3.b. All electrical energy used by the vehicle is stored in a maximum of 8 AA 1.5-volt common, commercially available batteries, as labeled by the manufacturer. All sources of energy are in a location as to be available for inspection by the event supervisor. Y N

3.d. All energy for propulsion is electric and comes from the batteries. For any non-propulsive functions that are powered by electric storage devices, the voltage also comes from the same batteries being used for propulsion. Y N

3.e. Electrical components, if used, are limited to batteries, wires, motors, switches, resistors, potentiometers & mechanical relays. Y N

3.j. Participants are able to answer questions regarding the design, construction, and operation of the device. Y N

HOW MANY "NO'S" ARE CIRCLED IN THIS SECTION?

3. _____

Individual Runs

Run 1 Run 2

3.f. If sighting/aiming devices are used, they are non-electrical. Y N Y N

3.g. Wheels in their entirety fit in a 30.0 cm wide x 60.0 cm long space of any height during the entire run. Y N Y N

3.h. A single ¼ inch or larger wooden dowel is attached to the front end of the vehicle. The dowel is approximately perpendicular to the floor and is the leading part of the vehicle at all time with the exception of a dowel attachment device of no more than 2.0 cm beyond the front of the dowel. The dowel extends at least 20.0 cm above the floor and extends to within 1.0 cm of the track's surface. Y N Y N

3.i. Only the wheels of the Battery Buggy contact the floor. Any pieces detaching from the Battery Buggy do not contact the floor. Y N Y N

HOW MANY "NO'S" ARE CIRCLED FOR EACH RUN IN THIS SECTION?

4. _____ 12. _____

The Competition

4.b. Participants do not leave the area or receive outside assistance, materials, or communication once in the event area. Y N Y N

4.c. Participants do not use AC outlet power during their 8 minutes Y N Y N

4.c.ii. Participants do not verify the distance by rolling the vehicle on or adjacent to the track surface between the start and finish lines. They do not roll the vehicle on the floor of the event track the day of the event. Y N Y N

4.c.iii. All substances applied to the vehicle is approved by the Event Supervisors, do not damage the floor, leave residue on the track and/or event area, and the track remains dry at all times. Y N Y N

4.c.iv. Participants place the tip of the vehicle's Measurement Point on the Starting Point and align the vehicle. All sighting and aligning devices placed on the track are removed before the run. Participants start the vehicle using any part of an unsharpened #2 pencil with an unused eraser to actuate some sort of switch. Participants do not touch the vehicle to start it, hold it while actuating the switch, or "push" the vehicle to get it started. The entire vehicle, including batteries, move forward together. Y N Y N

4.e. Once the vehicle begins a run, the participants wait until called by the Event Supervisor to retrieve it.

4.f. The vehicle passes the 8.50 m Line. Y N Y N

HOW MANY "NO'S" ARE CIRCLED FOR EACH RUN IN THIS SECTION?

5. _____ 13. _____

Run Parameters

7.b. Distance (point to point) from the Measurement Point to the Target Point measured to the nearest 0.1 cm 6. _____ 14. _____

4.d. Run Time: Starts when the dowel of the vehicle reaches 0.50 m, ends when the vehicle completely stops or passes 8.50 m (in seconds to the precision of the timing device use). Timer 1 7. _____ 15. _____
Timer 2 8. _____ 16. _____
Timer 3 9. _____ 17. _____

7.e. Center Line Bonus: The center tape remained completely within the vehicle's widest wheelbase while the vehicle traveled between the Starting Point and the Target Point. 10. Y N 18. Y N

4.g. Failed Run: the time and/or distance cannot be measured for the run (e.g. the vehicle starts before the event supervisor is ready, the participants pick up the vehicle before it is measured, the vehicle doesn't reach the 0.50 m Line), the vehicle runs backward at the start of its run, a run doesn't start in the 8-minute time. 11. Y N 19. Y N

6. Is practice log complete, incomplete or not present? (Circle one) 20. Complete
Complete means including 3 or more parameters (including distance and time) for 10 or more practice runs Incomplete
Missing

General Rule. Disqualified (notify the team and their coach as soon as possible) 21. Y N